Mile Post (ON)11: 209.180 mi

## Colorado Department of Transportation Structure Inspection and Inventory Report (English Units)

Bridge Key: F-16-OL Inspection Date: 3/24/2008 Sufficiency Rating: 95.3 Not Eligible Rgn/Sectn 2E/2M: 68 Hist Signif 37: **UW Inspection Date 93B** A Trans Region 2T 02 Posting status 41: County Code 3: 031 Service on/un 42A/B: Bridge Cost 94: \$0 DENVER Main Mat/Desgn 43A/B Roadway Cost 95: Place Code 4: 20000 0 Total Cost 96: \$ 0 0 DENVER Main Spans Unit 45: 10 Year of Cost Estimate 97: Rte.(On/Under)5A: Approach Spans 46: Brdr Brdg Code/% 98A/B: Signing Prefix 5B: 31.0 ft Border Bridge Number 99: Defense Highway 100: 172.7 ft Level of Service 5C: Directional Suffix 5E: 1,193.8 ft Str Length 49: Parallel Structure 101: 0.0 ft 0.0 ft Direction of Traffic 102: Feature Intersected 6: Curb Wdth L/R 50A/B: RAMP TO I 25 SBND Width Curb to Curb 51 31.0 ft Temporary Structure 103 Facility Carried 7: 34.0 ft Width Out to Out 52: Highway System 104: 6TH AVE WB Deck Area: 40.590.7 sq. ft Fed Lands Hiway 105: Min Clr Ovr Brdg 53: Min Undrclr Ref 54A: 99.99 0000 Year Reconstructed 106 Alias Str No.8A: Deck Type 107: Wearing Surface 108A Prll Str No. 8P 19.0 ft Min Undrclr 54B: Min Lat Clrnce Ref R 55A: H Membrane 108B: 8.0 ft Min Lat Undrolr R 55B: Deck Protection 1080 0 JCT I25 + SH6 IN DENVER Min Lat Undrolr L 56: 4.002624765 Truck ADT 109: 5 % 99.99 Trk Net 110: Max Clr 10 BaseHiway Net12: Pier Protection 111: Super 59: 000000025A IrsinvRout 13A NBIS Length 112: IrssubRout No13B: Channel/Protection 61: N Scour Critical 113: Culvert 62: 39d 43' 26" Latitude 16 Scour Watch 113M: 1 LF Load Facto 105d 00' 44" Oprtng Rtg Method 63: Future ADT 114: 3,000 Range18A: 68 W Operating Rating 64: 85.0 Year of Future ADT 115 2025 Township18B: Inv Rtng Method 65: DOT Str Type 120A: SBGC 43.0 Section18C: Inventory Rating 66: Asph/Fill Thick 66T 002 "in" Detour Length 19: Inspection Indic 122A: 3.2 mi Toll Facility 20: Str. Evaluation 67: Inspection Trip 122AA Custodian 21: Deck Geometry 68: 9 Scheduling Status 122B Undrclr Vert/Hor 69: 4 Maintenance Patrol 123: Owner 22: Expansion Dev/Type124 Brdg Rail Type/Mod 125*A* Functional Class 26: Posting 70: N Year Built 27: 1989 Approach Alignment 72 Posting Trucks 129A/B/C Lanes on 28A 11/13/1996 Str Rating Date 130: \_anes Under 28B: Type of Work 75A: ADT 29: 2,700 Work Done By 75B: Special Equip 133: Vert Clr N/E 134A/B/C: Year of ADT 30: Length of Improvment 76: N 19.75 19.00 2005 sp Team Indicator 90B Red Team (Coffi ert Clr S/W 135A/B/C S 18.67 Design Load 31: 18.00 Apr Rdwy Width 32: Vertical Clr Date: Inspector Name 90C COFFRINW 10/25/2005 31.0 ft 24 months Median 33: Frequency 91: Weight Limit Color: 139 99.00° 24 Str Billing Type: Skew 34: FC Frequency 92A UW Frequency 92B: Userkey 1 - System: Structure Flared 35: 24 ONSYS SI Frequency 920 24 Userkey 7-Update Indic Sfty Rail 36a/b/c/d: 2/14/2006 Rail ht36h: FC Inspection Date 93A

Inspector Name: COFFRINW

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#### **Element Inspection Report**

Elm/En	Description	Units	Total Qty	% in 1	CS 1	% in 2	CS 2	% in 3	CS 3	% in 4	CS 4	% in 5	CS 5
26/4	Conc Deck/Coatd Bars	(SF)	40,589	100 %	40,589	0 %	0	0 %	0	0 %	0	0 %	0
102/4	Paint Stl Box Girder	(LF)	2,388	100 %	2,388	0 %	0	0 %	0	0 %	0	0 %	0
205/4	R/Conc Column	(EA)	8	100 %	8	0 %	0	0 %	0	0 %	0	0 %	0
210/4	R/Conc Pier Wall	(LF)	54	100 %	54	0 %	0	0 %	0	0 %	0	0 %	0
215/4	R/Conc Abutment	(LF)	36	100 %	36	0 %	0	0 %	0	0 %	0	0 %	0
233/4	P/S Conc Cap	(LF)	188	100 %	188	0 %	0	0 %	0	0 %	0	0 %	0
234/4	R/Conc Cap	(LF)	58	100 %	58	0 %	0	0 %	0	0 %	0	0 %	0
307/4	Modular Expansion Jt	(LF)	107	100 %	107	0 %	0	0 %	0	0 %	0	0 %	0
314/4	Pot Bearing	(EA)	24	100 %	24	0 %	0	0 %	0	0 %	0	0 %	0
321/4	R/Conc Approach Slab	(EA)	1	100 %	1	0 %	0	0 %	0	0 %	0	0 %	0
326/4	Bridge Wingwalls	(EA)	2	100 %	2	0 %	0	0 %	0	0 %	0	0 %	0
331/4	Conc Bridge Railing	(LF)	2,388	100 %	2,380	0 %	8	0 %	0	0 %	0	0 %	0
341/4	Substr Conc Coating	(EA)	1	100 %	1	0 %	0	0 %	0	0 %	0	0 %	0
359/4	Soffit Smart Flag	(EA)	1	0 %	C	100 %	1	0 %	0	0 %	0	0 %	0
530/4	Approach Guardrail A	(EA)	1	100 %	1	0 %	0	0 %	0	0 %	0	0 %	0

Elem/Env	Description	Element Notes
26/4	Conc Deck/Coatd Bars	2 to 3 inches of asphalt. Looking worn in wheel lines.
102/4	Paint Stl Box Girder	Cracked weld at top connection of Diaphragm #8 to right web of Girder 3A. Previous report states: Splice plate at Girder B in Span 7 (first splice back from Pier 8) is bulged out on exterior of bottom flange (See 4/4/1990 PHOTO). It actually looks like bottom flange is bowed and splice plate took shape of bowed bottom flange. Angle between Girder B and exterior diaphragm is missing 2 bolts at Pier 2. Some timber formwork has been left in both girders near access holes above Pier 7 and Pier 11.
205/4	R/Conc Column	Few minor shrinkage cracks.
210/4	R/Conc Pier Wall	Considered at Pier 7 and Pier 11. Look OK.
215/4	R/Conc Abutment	Only one abutment. Looks OK.
233/4	P/S Conc Cap	Post-tensioned caps at P2, P3, P4, P5, P6, P8, P9, and P10. Hairline to light vert. and random cracks in some.
234/4	R/Conc Cap	At Pier 7 and Pier 11 only. Look good.
307/4	Modular Expansion Jt	At Abutment 1, Pier 7, and Pier 11. All are full of sand. R1 corrosion on the steel portions. Some light longit. cracks in concrete end dams. Looks and sounds solid. Joint at A1 open 9 inches, P7 open 8.75 inches, and P11 open 9.5 inches.
314/4	Pot Bearing	Minor cracks in the grout pads.
321/4	R/Conc Approach Slab	At Abutment 1. Covered with asphalt. Same grade as bridge deck at this time. End of approach slab where roadway meets, roadway is low. Needs leveling asphalt.

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Elem/Env	Description	Element Notes					
326/4	Bridge Wingwalls	U-Type abutment wings. Minor random cracks. Filler material is coming out of both.					
331/4	Conc Bridge Railing	Concrete Type R rail with 36 inch high chain link fence on top of portions above roads below. Light vert. cracks throughout. Minor traffic scuff marks. Few minor spalls and delam. from traffic impact.					
341/4	Substr Conc Coating	On abutments and wings. Spots of graffiti and blotted out graffiti.					
359/4	Soffit Smart Flag	Galvanized stay in place forms on deck bottom between girders, and also inside boxes. Some light trans. cracks with efflor. in overhangs.					
530/4	Approach Guardrail A	Concrete rails, and retaining walls, at #1 approach have settled; 15 inches at left, and 9 inches at right. Concrete rail is breaking up with exposed rebar. (See 2006 PHOTOS).					

#### **Maintenance Activity Summary**

MMS Acti	vity Description	Recommended	Statu	sTarget Year	Est Cost
354.04	Suprstr	4/19/2002	-1	2008	5000
<u> </u>					

Clean debris out of Girder 1A. It has trash and human waste inside at Abutment 1.

360.01 App SI & S 3/24/2008 2008 2000

Needs leveling asphalt at Abutment 1 between end of approach slab and roadway.

398.00 Misc Br Wk 4/19/2002 -1 2008 10000

Repair the concrete rail at Abutment #1 approach, where settlement has caused it to break.

### **Colorado Department of Transportation Structure Inspection and Inventory Report (English Units)**

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oriage Note	S				
Box girders	are accessible at Abutment	t #1 with an 8 ft. ladder	Large locks re	equire #15 key which is local	ted
ieit side oi i	nspection folder. Access a	oors at Pier #11 are ab	out 30 to 35 it. i	above ground level.	
	_				
spection N	Notes				
Time: 10:05	Tomporatura, EE Dograaa	Weather: Overcast	Team leader:	WDC	
11me: 10:05	Temperature: 55 Degrees	weather: Overcast	ream leader:	WDC	
Scope:				_	1
✓ NBI: ✓ E	Element: Underwater:	✓ Fracture Critical:	Other:	Type: Regular NBI	
spector:	COFFRINW	Inspection Team	•		
	<del></del>				
spection Date	<b>e:</b> 03/24/2008				
		Inspector			
		Inspector			